



Glenn Research Center



# Types of Experiments

## Basis Experiments

- Gas-Jet Diffusion Flames
- Structure of Flame Balls at Low Lewis Number
- Spread Across Liquids
- Diffusive and Radiative Transport in Fires
- Smoldering Combustion
- Droplet Combustion
- Laminar Soot Processes
- Soot Measurement in Droplet Combustion
- Unsteady Burning of Contained Reactants
- Solid Fuels Flammability Boundary
- Radiative Ignition and Transition to Flame Spread

## Combustion Areas

- laminar flames
- reaction kinetics
- droplet and spray combustion
- flame spread, fire and fire suppressants
- condensed phase organic fuel combustion (including coal combustion)
- turbulent combustion
- soot and polycyclic aromatic hydrocarbons (PAH)
- materials synthesis
- detonations and explosions